Student Geometry Seminar

國立清華大學數學系 學生幾何研討會

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講題 Introduction to categorical/geometric representation theory

講者 許佑鴻 博士 (中央研究院)

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Abstract

Representation theory is about the study of symmetry. In general, construction and classification of representations are the main problems in this field. On the other hand, categorification is the process of finding hidden higher level structures. In this talk, we will give an introduction to the combination of the two notions, which is called the categorical action. Usually the categories come from geometric spaces that naturally arise in representation theory. Finally, if time permits we will discuss our current work where the motivation comes from the categorification of quantum groups and their actions.